DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: <u>SF/ALA</u> Rte: <u>80</u> PM: <u>13.2/13.9</u>

File #: 6<u>9.yy</u>

DAILY PROJECT JOURNAL

Prime Contractor: American Bridge/Fluor Enterprises, a JV Report No: DPJ-000045 **Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island Dated: 16-Jan-2007

Changying Island Shanghai China I acation:

$\textbf{Submittals}(\textbf{New / Total}): \qquad \textbf{CWR's: } 0 \ / \ 0$			HSR's: 0 / 0	NCR's: 0 / 1
Item	Title	Detail		
1	Major component movement QA		review RT film on the following PQR test plates:	
		HP-20061	16 60mm performed with Iridiun	n 192 (view 2 missing one
		location m	arker, however since QA witness	sed the testing and could confirm
		the set-up	the film was deemed acceptable)	
		HP-20061	17-2 60mm performed with Iridia	um 192
		HP-200612	28 75mm performed with Cobalt	60
		HP-20061	33 75mm performed with Cobalt	60
		The welds	appeared to comply with the con	ntract documents.
		QA observ	ed the following mechanical test	ing:
		HP-20061	36-1 testing appeared to comply	
		HP-200613	37 finished Charpy-V notch testing	ng. Testing appeared to comply.
		HP-200612	26 macro-etches - multiple pass f	fillet weld was unacceptable due
		to lack of t	usion.	
		Conducted	welding of the following PQR to	est plates:
		2F FCAW	procedure qualification identifie	d as HP-2006126 on HPS-485
		material.	The test was unacceptable due to	welding outside of the
		parameters	qualified by supporting PQR HI	P-2006120.
		2F FCAW	procedure qualification identifie	d as HP-2006126-1 on HPS-485
		material.	Welding appears to comply, how	ever the Macro-etch samples
		revealed la	ck of penetration on the multiple	pass fillet weld.
2	Key conversations QA s		with Moody International CWI 2	Zhou Daqing regarding the
		discrepanc	ies noted during observations of	the welder qualifications. Mr.
		Zhou then	stated that the welder qualification	ons are not being performed for
		Caltrans, b	ut for a different project. Mr. Zh	nou also stated that the E7015
		CN (AXX 1	. 1 11 E7010 C	A1

SMAW electrode was better than E7018. QA explained that welder

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	viewed By: Lowry, Patrick	QA Reviewer	
Ins	pected By: McClary, David	Quality Assurance Inspector	
		0 PM	
		Shanghai)	
4	Quality Assurance Inspectors per shift	4 AM (3 at Changxing Island Base / 1 at Jin Tong Jian Chen NDT Co, Ltd,	
		electrode that is not certified to AWS/ASTM/ASME A5.1 or A5.2.	
		Caltrans. In addition the electrode being used was a Chinese brand E7015	
		SMAW - the electrode was other than that listed in the WPS submitted to	
		submitted to Caltrans and not that listed in AWS D1.5.	
		SAW - the electrode and flux was other than that listed in the WPS	
		260C (500F).	
		Caltrans, and QA observed the interpass temperature to be greater than	
		FCAW - wire size was other than that listed in the WPS submitted to	
		and SAW qualifications. QA observed the following discrepancies:	
		ZPMC informed QA that they were currently performing SMAW, FCAW	
		qualifications being conducted by Moody International. Upon arrival	
		QA traveled to another ZPMC base on Changxing Island to observed welder	
		previously that the company did not possess an Iridium source.	
		Cobalt 60 for the 75mm plates. QA had been under the impression	
		observed the NDT company use Iridium 192 for the 60mm plates and	
		test plates HP-2006116, HP-2006117-2, HP-2006128 and HP-2006133. QA	
		QA traveled to Jin Tong Jian Chen NDT to observed radiographic testing of	
		OA torreladas En Tana Han Chan NDT to about des d'acceptant de	
		fabrication plan and logistics.	
		facilities appear to be acceptable, however they still working on their	
		Base Machine Shop to perform an audit of the facility. The machines and	
		and ZPMC Engineers Chen Bin and Wu Yun traveled to the Zhang Jiang	
3	Other important observations	Caltrans Engineer Jim Merrill along with ABF representative Craig Knops	
		was not sufficient to satisfy the code requirement for electrodes.	
		"certified" and that the manufacturer stating the electrode was "equivalent"	
		"equivalent" to A5.1 or A5.5. QA stated that the electrode must be	
		manufactures technical data on the electrode it stated that the electrode was	
		AWS/ASTM/ASME A5.1 or A5.2. Mr. Zhou stated that in the electrode	
		E7015 electrode package did not state the electrode was "certified" to	
		procedures and electrodes which comply with the code. QA stated that the	